CLAIMS

What is claimed is:

1. A buffer circuit for use in a microphone assembly comprising: an input for receiving a signal; an input buffer coupled to the input; an output;

a filter network coupled between the input buffer and the output; a selector comprising:

- a first input;
- a first output responsive to the first input; and
- a tuning circuit coupled to the filter network for adjusting a characteristic of the filter network, the tuning circuit responsive to the selector, wherein the characteristic of the filter network is adjusted using the first input.
- 2. The buffer circuit of claim 1 wherein the first input is on a separable tab.
- 3. The buffer circuit of claim 1 wherein the first input is on a separable tab and the separable tab is removed from the buffer circuit after the characteristic of the filter network is adjusted.
 - 4. The buffer circuit of claim 1 wherein the circuit comprises a resistor network.
- 5. The buffer circuit of claim 1 wherein the circuit is a ladder network, the ladder network adjustable by activating a semiconductor device between an element of the ladder network and a ground connection.
- 6. The buffer circuit of claim 5 wherein the ladder network comprises one of resistors and capacitors.
- 7. The buffer circuit of claim 6 wherein a resistor of the ladder network has a value of 5.5K ohms.

8. The buffer circuit of claim 5 wherein the semiconductor device is a field effect transistor (FET).

- 9. The buffer circuit of claim 1 wherein the first input is coupled to a biasing element.
- 10. The buffer circuit of claim 9 wherein the biasing element maintains a persistent state responsive to a programming signal applied to the first input.
 - 11. The buffer circuit of claim 9 wherein the biasing element is a zener-zap diode.
 - 12. The buffer circuit of claim 9 wherein the biasing element is an EEPROM.
- 13. The buffer circuit of claim 1 further comprising a resistive element coupled between the filter network and the circuit.
- 14. The buffer circuit of claim 13 wherein a value of the resistive element is 500K ohms.
 - 15. A hybrid circuit for buffering an audio signal comprising:
- a substrate having a first and second portion, the second portion severable from the first portion; and
- a buffer circuit substantially disposed on the first portion of the substrate, the buffer circuit comprising:
 - a first input for coupling the audio signal;
 - a filter network coupled to the first input;
 - an output coupled to the filter network;
 - a tuner for adjusting the filter network; and
- a controller for altering a value of the tuner, the controller having a second input, the second input disposed on the second portion of the substrate,

whereby a tuning signal coupled to the second input is used to adjust the tuner, thereby changing a transfer function of the buffer circuit.

16. The hybrid circuit of claim 15 wherein the controller retains a setting upon receiving the tuning signal.

- 17. The hybrid circuit of claim 15 wherein the second portion of the substrate is permanently removed after the controller receives the tuning signal.
- 18. The hybrid circuit of claim 15 wherein the tuner is a ladder network, the ladder network adjustable by activating a semiconductor device between an element of the ladder network and a ground connection.
- 19. The hybrid circuit of claim 15 wherein the second input is further coupled to a biasing element, the biasing element maintaining a state after receiving the tuning signal.

20. A method for adjusting a buffer circuit for use in a microphone assembly comprising:

providing a desired response characteristic for the buffer circuit;
measuring an initial response characteristic of the buffer circuit;
comparing the desired response characteristic to the initial response characteristic;
determining an adjustment using the comparison, the adjustment for reducing a
difference between the desired and initial response characteristics;

transmitting a signal to a selector circuit in the buffer circuit; and tuning an adjustable filter coupled to the selector circuit, the adjustable filter for modifying the initial response characteristic.

- 21. The method of claim 20 further comprising: assembling the buffer circuit in an acoustically sealed housing, a portion of the buffer circuit accessible from outside the housing.
- 22. The method of claim 20 further comprising: removing a portion of the buffer circuit used in transmitting the signal to the selector circuit.
- 23. The method of claim 20 wherein the tuning the adjustable filter further comprises activating a semiconductor device between an element of a ladder network and a ground connection.
- 24. The method of claim 20 wherein the tuning the adjustable filter further comprises biasing the selector circuit with a zener-zap diode.